## AMENDMENT TO THE CLAIMS

(Amended) An isolated nucleic acid molecule comprising a

1.

(a) a sequence encoding amino acids from about 1 to about 744 of SEQ ID NO:3;

(b) a sequence encoding amino acids from about 2 to about 744 of SEQ ID NO:3;

(e) a sequence encoding amino acids from about 1 to about 691 of SEQ ID NO:6;

(d)(b) a sequence encoding amino acids from about 2 to about 691 of SEQ ID NO:6;

(e) a sequence encoding amino acids from about 1 to about 724 of SEQ ID

(g) a sequence encoding amino acids from about 1 to about 795 of SEQ ID

a sequence encoding amino acids from about 2 to about 724 of SEQ ID

(h) a sequence encoding amino acids from about 2 to about 795 of SEQ ID

(i)(c) complements of the sequences of (a)-(h)(b);

NO:9;

NO:9;

NO:12:

NO:12;

- (j) a sequence having 50 2232 contiguous nucleotides from the coding region of SEQ ID NO:1;
- (k)(d) a sequence having 50-2073 contiguous nucleotides from the coding region of SEQ ID NO:4;
- (l) a sequence having 50-2172 contiguous nucleotides from the coding region of SEO ID NO:7;
- (m) a sequence having 50-2385 contiguous nucleotides from the coding region of SEO ID NO:10;
- (n)(e) sequences having at least 90%95% identity to the sequences of (a) (m)(b) (d), wherein the polypeptide encoded by said sequence has kinase activity.;
- (o)(f) sequences having 100-1500 contiguous nucleotides from the coding region of SEQ ID NO:1, SEQ ID NO:4, SEQ ID NO:7 or SEQ ID NO:10;
- (p)(g) sequences having 500-1000 contiguous nucleotides from the coding region of SEQ ID NO:1, SEQ ID NO:4, SEQ ID NO:7 or SEQ ID NO:10;
- (r)(h) sequences of (a) (h)(b), except for at least one amino acid substitution in the encoded amino acid sequence; and wherein said sequence encodes a polypeptide of SEQ ID

  NO:6 with at least one amino acid substitution, wherein said polypeptide has kinase activity;
- (s)(i) sequences of (a) (h)(b), wherein said sequence encodes a polypeptide of SEQ ID NO:6 with except for a conversion of a conserved lysine to an alanine at an ATP binding site of the encoded amino acid sequence SEQ ID NO:6, wherein said polypeptide has kinase activity:

- (j) sequences of (f) (g) wherein said sequence encodes a polypeptide having at least one amino acid substitution compared to the corresponding region of SEQ ID NO:6 encoded by said coding region; and
- (k) sequences of (f) (g) wherein said sequence encodes a polypeptide having a conversion of a conserved lysine to an alanine at an ATP binding site compared to the corresponding region of SEQ ID NO:6 encoded by said coding region.
- 2. (Original) A method of making a vector comprising inserting a nucleic acid molecule of claim 1 into said vector in operable linkage to a promoter.
  - 3. (Original) A vector produced by the method of claim 2.
- 4. (Original) A method of making a host cell comprising transforming or transfecting a vector of claim 3 into a cell.
  - 5. (Original) A host cell produced by the method of claim 4.
- 6. '(Original) A method of making a polypeptide, comprising culturing the host cell of claim 5 under conditions such that said polypeptide is expressed and recovering said polypeptide.
  - 7-25. (Withdrawn)